Lesson Plan

Name of the Faculty	:	Ms. Nidhi
Discipline	:	ECE
Semester	:	4 th
Subject	:	Mathmatics - III (BSE-MATH-202G)
Lesson Plan Duration	: (from 4 th Jan., 2020 to April, 2020)	

Week	Theory		
	Lecture	Topic	
-1	Day	(including assignment/test)	
1 st	1^{st}	Partial Differential Equations of first order:	
(04/01/20) To		Definition of Partial Differential Equations	
(11/01/20)	2 nd	First order linear partial differential equations	
2 nd (12/01/20)	1^{st}	Solutions of first order linear partial differential equations	
(19/01/20)	2 nd	Charpit's method for solving first order non-linear partial differential equations Assignment - 1	
3 rd (20/01/20)	1^{st}	Partial Differential Equations of higher order: Second-order linear partial differential equations and their classification,	
(27/01/20)	2^{nd}	Solution to homogenous and non-homogenous linear partial differential equations of second order by complimentary function and particular integral method	
4 th (28/01/20) To	1 st	Initial and boundary conditions	
(03/02/20)	2 nd	D'Alembert's solution of the wave equation	

5^{th}	1 st	Heat diffusion and vibration problems,
(04/02/20) To		
(11/02/20)		
	2^{nd}	Separation of variables method to simple problems in Cartesian
		coordinates
6 th	1 st	One dimensional diffusion equation and its solution by separation of
(12/02/20)		variables
10 (19/02/20)		Assignment - 2
(1)/02/20)	2 nd	Numerical Methods 1: Solution of polynomial and transcendental
		equations – Bisection method
7 th	1 st	Regula-Falsi method and
(20/02/20)		
10 (27/02/20)	2 nd	Finite differences
(21/02/20)		
8 th	1 st	Interpolation using Newton's forward and backward difference
(28/02/20)	-	formulae
То		Tormulae
(06/03/20)	2 nd	Numerical differentiation
		Assignment - 3
Oth	1 st	Namanialinta matian
(07/03/20)	1	Numerical integration
То	2 nd	Trapezoidal rule
(14/03/20)		
10 th	1 st	Simpson's 1/3rd and 3/8 rules
(15/03/20)	2 nd	Numerical Methods 2: Taylor's series
(22/03/20		
11 th	1 st	Euler and modified Euler's methods
(23/03/20)	2 nd	Assignment - 4
To		
(30/03/20)		